

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

**MORPHOMETRIC:**

Lake: STORRS POND	Lake Area (ha): 13.76
Town: HANOVER	Maximum depth (m): 6.4
County: Grafton	Mean depth (m): 2.8
River Basin: Connecticut	Volume (m <sup>3</sup> ): 383000
Latitude: 43°43'36" N	Relative depth: 1.5
Longitude: 72°15'51" W	Shore configuration: 1.22
Elevation (ft): 400	Areal water load (m/yr): 24.45
Shore length (m): 1600	Flushing rate (yr <sup>-1</sup> ): 8.80
Watershed area (ha): 829.5	P retention coeff.: 0.46
% watershed ponded: 3.4	Lake type: natural w/dam

**BIOLOGICAL:**

		3 February 1994	6 July 1993
DOM. PHYTOPLANKTON (% TOTAL)	#1	VERY SPARSE; MOSTLY	NET PHYTOPLANKTON
	#2	COELOSPHAERIUM	SPARSE - NO DOMINANT
	#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)			11645
CHLOROPHYLL-A (µg/L)			1.09
DOM. ZOOPLANKTON (% TOTAL)	#1	KELICOTTIA 76%	NAUPLIUS LARVA 33%
	#2	CALANOID COPEPOD 15%	EPISTYLIS 19%
	#3		
ROTIFERS/LITER		131	37
MICROCRUSTACEA/LITER		35	92
ZOOPLANKTON ABUNDANCE (#/L)		170	159
VASCULAR PLANT ABUNDANCE			Sparse
SECCHI DISK TRANSPARENCY (m)			5.0
BOTTOM DISSOLVED OXYGEN (mg/L)		11.5	9.5
BACTERIA (E. coli, #/100 ml)	#1		10
	#2		
	#3		

**SUMMER THERMAL STRATIFICATION:**

stratified

Depth of thermocline (m): 3.1  
Hypolimnion volume (m<sup>3</sup>): None  
Anoxic volume (m<sup>3</sup>): None

**CHEMICAL:**Lake: STORRS POND  
Town: HANOVER

	3 February 1994		6 July 1993		
DEPTH (m)	1.0	3.0	1.5		3.5
pH (units)	7.5	7.4	7.5		7.4
A.N.C. (Alkalinity)	46.3	47.4	25.9		22.2
NITRATE NITROGEN	0.05	0.07	< 0.04		< 0.04
TOTAL KJELDAHL NITROGEN	0.22	0.28	0.16		0.16
TOTAL PHOSPHORUS	0.009	0.012	0.008		0.008
CONDUCTIVITY ( $\mu$ mhos/cm)	195.7	194.4	119.7		104.8
APPARENT COLOR (cpu)	8	9	7		7
MAGNESIUM			1.67		
CALCIUM			12.7		
SODIUM			6.7		
POTASSIUM			1.17		
CHLORIDE	21	21	12		11
SULFATE	15	15	10		10
TN : TP	30	29	20		20
CALCITE SATURATION INDEX			1.3		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1993**

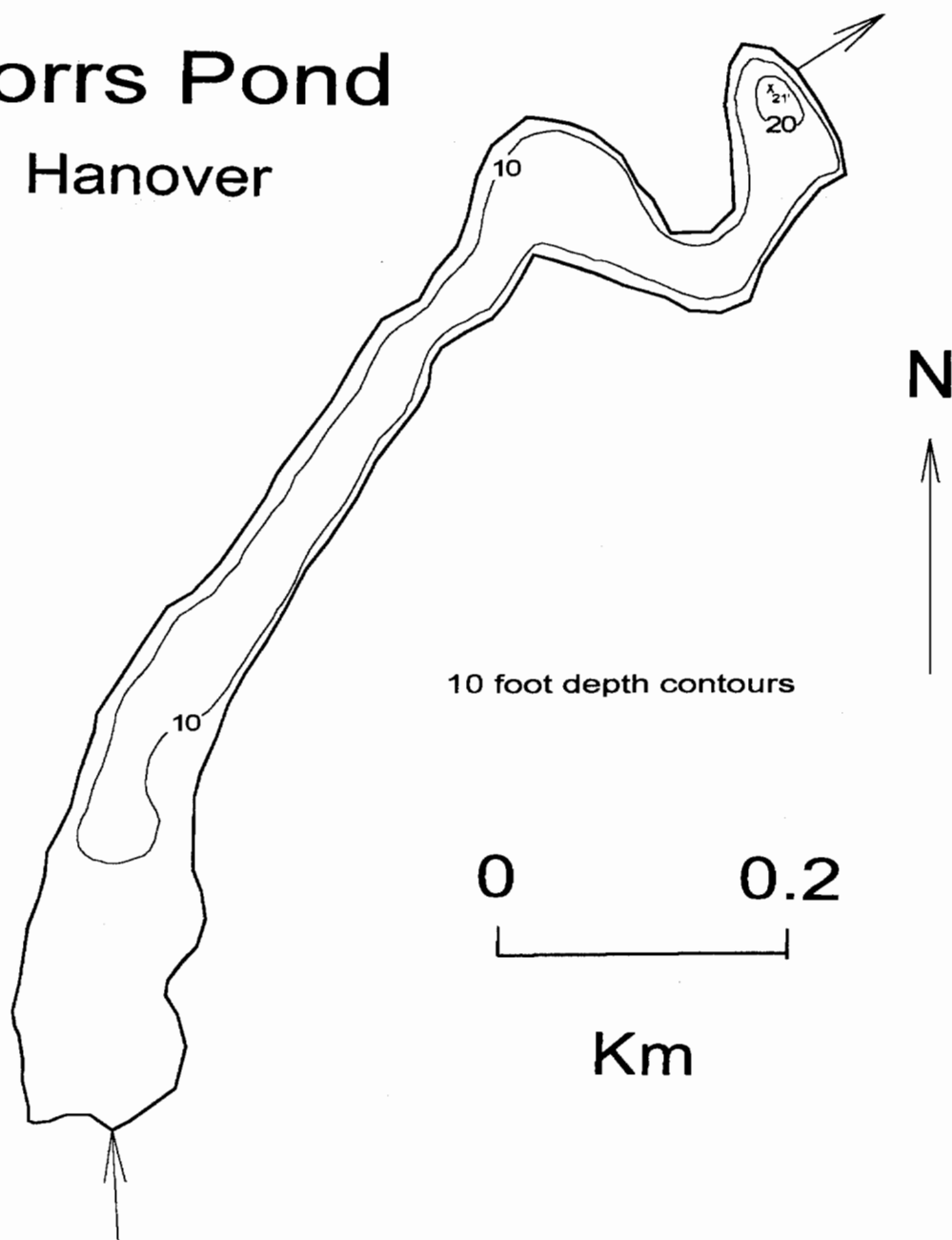
D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	2	0	0	2	Oligo.

**COMMENTS:**

1. This is a narrow, steep-sided pond. There was no public boat launch facility. Two swimming beaches were present which were part of the Storrs Pond Recreation Area. No camps were present along the shore.
2. Clay soils were very obvious around the entire pond.
3. The wholewater phytoplankton were dominated by a very thin, filamentous, probably blue-green algae (98%).

# Storrs Pond

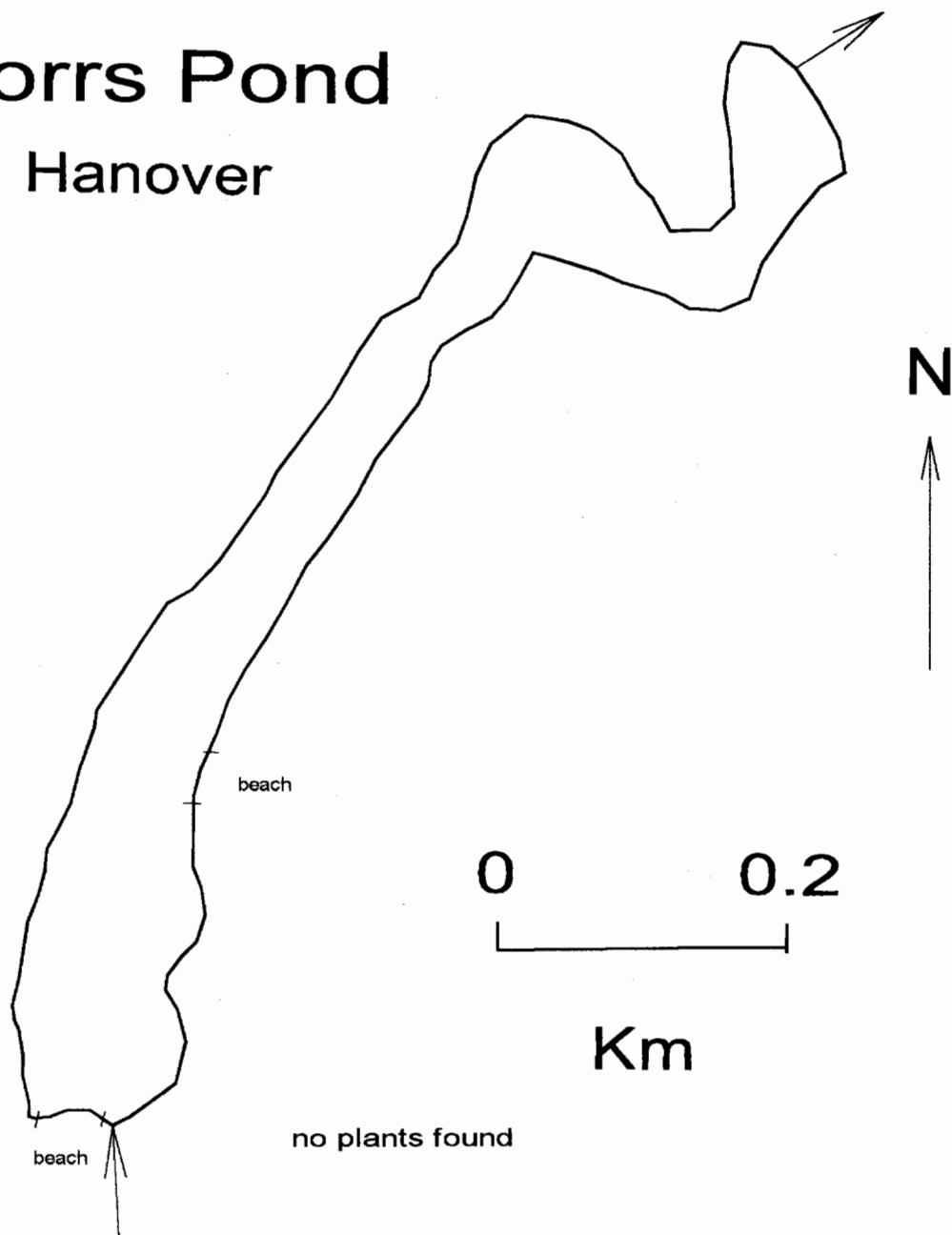
Hanover



[illegible]

# Storrs Pond

Hanover



[illegible]